Agriculture Must Be Used to Improve Soll Fertility.

One of Best Ways to Accomplish End Is to Raise More Animats and Diversify Crops-Sell Only High-Priend Products.

farming industry, practically all the and that it is necessary to keep the thought was given to the production surface of the soil loose and in a reof crops. The main problem was to captive condition to get the water into take land receiving but scant rainfall the soil. Almost as much water is got and producing but little of value, and lato the soil during the early part of make it produce paying crops. At the season where a cultivated eron is tention has been directed toward the being grown as is conserved by sumpractical problem of plowing, harrow- mer tillage. This is due to the fact ing and other tilinge operations to that the surface soil is kept loose conserve moisture. The world has enough to hold the water that falls been searched for plants inured to until it can get down into the soil, drouth. Careful tests have been made and the loose soil on the surface to secure varieties that would pro- prevents evaporation. It is also due duce maximum crops with a minimum to the fact that comparatively few amount of water.

success or fallure has to be the re- heavily on the water supply during ward of all this labor has left little the early part of their growth. time to consider methods of making the industry permanent and establish are grown, with the result that the ing it on the hasis of good husban- water is used more rapidly and tens dry. The pioneer work has been well water is got into the soil. In fields done. It is now necessary that dry growing alfalfa or brome grass, where land agriculture improve and not de- the number of growing plants are plete soil fertility, and that it develop large and the surface of the soil is a high type of citizenship among its smooth and hard, it is seldom that

these ends is to increase the live By the method of summer tilling pracstock and diversify the dry farm prod- tieed from 40 to 50 per cent, of the ucts. In the past but very little at season's rainfall has been stored for tention has been given to animal pro- the use of the subsequent crop. On duction. This has been very well this type of soll the water in the upthus far, but history has demonstrat. per six feet is available for the crop. ed that such a policy will inevitably decrease soil fertility. Now, a good system of permanent dry land agriculture cannot be conducted on land that is gradually but surely growing poorer. One of the very best ways of maintaining soil fertility is to feed the crops to live stock on the farm and sell only concentrated, high priced products.

Live stock may also contribute to the dry farm by helping more profit- the winter. To prevent a loss of this ably to employ its labor. In the production of a single crop, for example. wheat, a great deal of labor is required at certain seasons of the year, while at other seasons there is practically nothing to do. This condition is certainly out of harmony with economic management. It would not be difficult to arrange a system of management whereby the labor required during the busy season of crop production could be profitably employed at other times caring for live stock being fattened. Thus the live stock would not only preserve the value of the land, but would help to solve one of the difficult problems of profitable management.

The manager of the dry farm may also use live stock in helping to solve the problem of marketing. Crops can often be fed to animals at a good profit. This also places the crops more or less beyond the uncertain fluctuations in price. On every farm there are always certain products which for some reason are unmarket noted the small increase in the perable, yet perfectly edible. They are centage of soil moisture to certain often an entire loss in the absence of depths resulting from fall plowing, is much cheaper to buy broom corn to bale, makes a smoother bale and stock to consume them. Where crop and have hastly concluded that fall seed from those who make a business doesn't take as many men to handle growing alone is followed, the sales plowing has little value in conserving of raising pure seed, than it is to it. Let the corn lay in the bulk a are usually all made at one time, mak- the natural precipitation. In view of ing a short season of great plenty, but the law of the approximate constancy a longer season with absolutely no in- of the soil moisture in the spring such come. By the use of live stock, the views may be revised. Fall plowing period when money is coming in is ex- undoubtedly conserves the winter tended. The diversity of products precipitation.-Utah Bulletin No. 104 also makes the farmer less at the mercy of unfavorable conditions.

A Good Turkey Ration.

While corn will put fat on turkeys, a much finer quality of flesh is obtained if they are given a ration of ground oats, barley, buckwheat and wheat middlings mixed into a molat hash and skim milk or buttermilk. A half ounce of tailow to each bird as a substitute for corn gives excellent results.

This ration should be fed from a trough and should be supplemented by a succulent ration of apples, beets or turnips. Shells, grit, and fresh water should be kept before the birds constantly. If they are in good growing condition to start with about will be needed to fit them for the inble.

Crops for Sage Brush Land. The choice of crops for sage-brush land will depend on soil, location and altitude. The grains almost always favorable to the body. do well. On the proper soils and in adapted locations, potatoes thrive saves medicine later on Hogs should Garden stuff nearly always does well. have it as well as the rest. For the most part same brush lands are deficient in organic matter and sidered the bucky man, and the better will not reach their best production bred his cattle are the luckier he isuntil after they have been in alfalfa or other legumes. In the higher altitudes field pens and alatke clover will your neighborhood and see if it is often be used as the rotation crop to not so. increase the productive capacity of larger crops than virgin soil.

Remedy for Lice on Cows. to pour a little kerosene oil into a ter for winter conditioning shallow dish and stir in a little sait. din the ends of the both in the mix enough. If there are to be no barb ture, and, shaking off the surplus, wires on top, the hog fence should be draw the comb down through the not less than 30 inches high. cow's hair where the lice are found. Comb the cows once a week in this horses in the pasture is likely to do way, taking egre not to apply enough great harm by biting and kicking. of the oil to loosen the hair, and the She should either be hobbled or kept Mce will soon be exterminated.

Necessity of Storing Moisture in Soil During Periods of Wet Weather to Use During Drouth.

The Nebraska Apportment station Bullo in No. 114, on storing moisture in the soil, is a report of work done at the experimental station located at North Platte. It takes up the necesuity of storing water in the soil during periods of wet weather, to be used during periods of drouth,

The charts show that water is con-In the early development of the dry sorrad in the soil through cultivation plants are being grown in a cultivated The work of determining whether field, and these do not draw very

In a small grain field more plants enough water gets but the soil to One of the ways of accomplishing moisten it below two or three feet.

VALUE OF PLOWING IN FALL

Should Be Done in Order to Permit Winter Precipitation to Enter Soils Easily and Effectively.

It is generally conceded that in order to permit the winter precipitation to enter the solls easily and effectively. the soil should be plowed in the fall turers. the more successful management of and left in a rough state throughout storage moisture, when the warm sunshine of spring and summer appears, the fall plowed soll should be harrowed in early spring, and by means of repeated harrowings a dry earth mulch should be kept on the surface. On the overwhelming majority of western soils the only right time for plowing In in the fall. On an equally large proportion of western soils the best method of preventing evaporation from

> soils is deep and thorough cultivation. The soil of the farm on which the experiments reported in this bulletin were conducted was tilled in the best possible manner. The top soil was loose and permitted the ready entrance of water. The field was usually plowed in the fall. During two seasons only it was possible to secure comparative data dealing with fall versus spring plowing. While the difference in both seasons was small, in both cases it was in favor of the fall-

plowed soll. Some workers in this field have



It pays in dollars and cents to make the stock comfortable. Try to protect all stock from cold

winds and rains. It pays. The cattle shortage is with us and is likely to stay for years. Kafir fodder is better in quantity

for ten years.

pregnant ewes. Sheep, like men, can endure great

severity if conditions are maintained Many times plenty of salt for stock

The man with the cattle is now con-In the long run it is live stock

A hog fed on corn alone from the

the lands. Thus land which has been time it is weared from the now until in peas, clover or alfalfa will produce butchered at 1s months old seldom раув ехрепяев

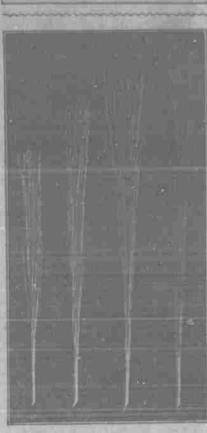
As good a conditioner us we know of is oil meal fed in connection with A good remedy for lice on cows is one-tenth sait. There is nothing bet-

For a straight hog fence we have Then take a wire-touth cattle comb. found that 26 inches is not high

A vicious old horse in a herd of sutirely away from other horses.

BROOM CORN

Discussions by Men Experienced in Browing This Valuable Crop



No. 1.

NUMBER ONE QUALITY.

sible, to the most desirable quality bowever, to keep the cloth damp. that has no kinky or rough tip. With stalks 4 to 5 inches, the straw is the apart about sixty seeds to the rod, variety most desired by all manufac- and plant two and ones all inches

inches to 22 inches, which will make it a good ploughing with any good culall length brooms the market de- tivator, or eagle claws. The three mands. Such growth and quality, shovel cultivator is preferable for the with a pea green color, no ripe or first two cultivations, after which we red, should command the very high- use the surface cultivator. After the est market price, and will find ready broom corn is ploughed three or four sale on any market, when low grade times, it should be kild by when about goes at very much lower prices and waist high. Cutting should begin as but little demand for low grades.

and shedded with the same pains, the weather will permit, allow the will produce almost as profitable as corn to lay on the table until the fol-Standard. However, hy pulling the lowing day. Corn should be sheded Dwarf leaves too much excessive while you seed it, and placed on slats waste. The buyer must consider in about three inches deep, or a good buying which is a trifle lower price, armful to an eight foot alat. The quality taken into consideration.

FOREIGN FIELD FOR BROOM CORN.

it is growing.

One method of seed testing is to We prefer the Australian variety test the seed in warm water, but we of seed, as the brush is longer, and have not secured any inefrior seed runs more to burl from our seedsmen.

In this country the ground is prepared by listing, same as for Indian BROOM MANUFACTURERS WILLcorn, and is cultivated as soon as possible, that is, when it rets about four inches high, and should be ploughed as often as possible, chopping out the big weeds, and afterwards let it mature.

one-hundred seeds Seventy-five is planted to L rod. This is determined, however, according to the ground. On rich land, one-hundred Farmers stand in their own light seeds should be planted to to the rod, in the way they prepare their broom

three weeks of this special feeding and quality in Kansas this fall than soon as the bloom is off and seeded as the seed they select for planting; and fast as it is cut. Then put in the after planting, not enough attention Two parts cats and one of bran shed so that the sun will not be on is paid to cultivation. As a general make a well-halanced grain ration for It any more than is necessary, as the rule, later on they are careless about sun makes the straw brittle, and harvesting their broomcorn, and very should not be stacked in the field. It often a little of it stands in the field will pay any grower of broom corn to for quite a long time, with the result build a shed, for one little rain will that a lot of red corn is produced. will do more damage than the shed Very many growers think that anybroom corn raising."

had planted. Would advise shedding broom corn all times. as zoon as it is cut to secure a good. We believe that the broom manufaccolor, and don't allow the corn to get turers will be willing at all times to too far forward before cutting, and pay the farmers good prices for their be certain your man takes the boots broomcorn if they would be more off. For bailing, the brush should be careful with it. More attention butted down good and even before it should be given by the growers, to goes to the man in the baler, for no broomcorn seeds, so that their corn man can put up a nice bale of broom could be properly cured and put in corn without it first being butted first class condition, as the extra

down well.

Discussions by Men Experienced in Growing Thin Volumble Crop

BROOM CORN SEED BED FIRST THING FOR CONSIDERATION

(By Luke H Hood, Arcola, III.)

In raising broom corn, first thing ling the crop in the west bed.

To get good bed, plough the ground help, as early in the spring as possible, plough five or six inches deep at teast and let the ground lay until you are ready to plant. This will give time started. Then disc it and work down and ask for a sample bottle. Dr. Cald-

The next thing is seed, and for one not experienced in taking care of seed, it will be much better to get the seed from some good reliable shelf until it. Is thoroughly cured, after which it should be threshed and stored in a good dry place.

to take a sample of the seed and roll bel called out: THE ABOVE ILLUSTRATION IS It tightly in a piece of old wollen cloth,, next, wet this thoroughly oo, and 'en oo 'Il be all right."-Lipin warm water, and keep in a warm place for a few days, Then unroll Number, 1, which is Standard va- and you can see what per cent of good riety, with as few center stems as pos- seed you have. Care should be taken

Plant in rows three feet, four inches deep. After the corn is up about an is should run of equal portions, 10 inch, put the roller on it. Next give soon as the seed begins to fill out, or Dwarf of high quality, if handled as soon as the heads are all out. It into a magazine controversy over it. depth, however, wil depend on the condition of the corn, and also whether the shed is an open or a closed one. The air should be allowed to pass freely through the corn.

Leave the corn on the slats eight or (By James Jay, Lindsay, Okiahoma,) ten days, or until the stems are dry. Broom corn should be blocked before It has been my experience that it hailing as it puts it in better shape

gave it, as broom norn runs out very week or ten days. Care should be easily, and it requires a great deal of taken in baling to straighten the corn, work to cut out any amut heads when or placed in small bunches while buttud.

ING TO PAY HIGHER PRICES FOR GOOD BROOM CORN.

(By Herbert P. Gardner, of Gardner Broom Co., Amsterdam, N. Y.)

but on fair land only about eighty. corn for market. In the first place Broom Corn should be cut just as they are not particular enough with will east. These observations are the thing will do as long as it gets into result of forty years experience in the bale, paying no attention to the very important matter of seeding and If I had not had a broom corn crop balling. Here is where they make a raiser who gets shead. Look around this year, I would not have had any very and mistake, for broomcorn welli thing, as everything else falled that I seeded, handled and baled will bring from \$10.00 to \$20.00 more per ton at

> price they would get for their carn Seeding should be done every day, would pay for the sheds, and after but considering the matter of good wards these same sheds could be pure broom corn seed, it is the most used for other purposes, such an storimportant factor if raising a crop. ing machinery, wagons, etc.

FOR EVERY FAMILY MEDICINE CHEST

To the head of every family the health of its different members is dependence, Kane, says: "For a nummost important, and the value of an her of years I was a victim of disoragrocable laxative that is certain in dered kidneys. My back ached conits effect is appreciated. One of the stantly, the passage most popular remedies in the family of the kidney secremedicine chest is a combination of tions was trregular simple laxative horbs with popula that and my feet and anis known to druggists and physicians kies badly swollen. as Dr. Caldwell's Syrup Pepala. This Spots appeared bepreparation is mild and gentle in its fore my eyes and I action on the bowels, yet positive in was very nervous, its effect. A done of Syrup Pepala at After using numerous night means relief next morning, remedies without relief, I was comwhile its tonic properties tone up and pletely cured by Doan's Kidney Phis. strengthen the muscles of stomach, In view of my advanced age, my cure liver and bowels so that these organs seems remarkable." to be considered in raising and hand- are able in a short time to again per-

Druggiats everywhere sell Dr. Caldwell's Syrup Pepsin in 50c and \$1.00 bottles. If you have never tried this simple, inexpensive, yet offective much paint on her face?" remedy, write to Dr. W. B. Caldwell, Brooklyn Life. for the weed and gram seed to get 201 Washington St., Monticello, Ill., thoroughly with roller, and harrow well will be giad to send it without any expense to you whatever.

But Mamma Didn't.

Little Mabel was always tumbling down and getting hurt, but as soon as her mother kissed the bumped foreseedsmen. If, however, the person head Mabel would believe it cured should prefer to save his own seed, and cease crying. One day she accomhe should let the broom corn stand panied her mother to the Union depot, in the field until good and ripe, then and while they were seated in the cut and shelve up, leaving it on the crowded waiting room an intextcated man entered the door, tripped over a suitense, and full sprawling on the floor. The attention of every one was attracted to the incident, and in the In testing seed, I find it a good way sudden silence following the fall Ma-

"Don't cry, man. Mamma 'll kisa pincott's Magazine.

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ROUGH ON SERETTERS, SPIDERS, etc., 25c.
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ROUGH ON CONNS, Liquid, 25c., Salve, 15c.
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ROUGH ON BUNIONS, Liquid, 25c., Powder, 35c.

As drametels and country stores E. S. WELLS, Chemist, Jersey City, N. J.

Among the Ancients. Democritus had just announced the theory that the visible universe is merely the result of the fortuitous concourse of atoms,

"Subject, of course," he sald, "to the approval of Mr. Gompara." For he did not wish to be drawn

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husband because she is afraid of being left.

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